IN THE CLAIMS

- 1. -33. (Cancelled)
- 34. (Currently Amended) Apparatus for intercepting a target, the apparatus including:
 - a) A-a projectile deployment system having:
 - i) A-<u>a</u>body; and,
 - ii) A-a number of projectile systems mounted to the body in an array, each projectile system being adapted to deploy a number of projectiles in a predetermined direction with respect to the body and, including:
 - (1) a barrel,
 - (2) a number of projectiles, and
 - (3) a number of charges, each charge being adapted to urge a respective projectile along the barrel to thereby deploy the projectile; and
 - b) A-a controller, the controller being adapted to selectively activate one or more of the projectile systems to thereby deploy projectiles in accordance with a projectile deployment pattern, wherein the controller includes one or more sensors for sensing the target, and a processor adapted to

monitor the sensors to thereby determine the position of the target with respect to the missile,

determine a projectile deployment pattern,

select one or more of the projectile systems in accordance with the projectile deployment pattern, and activate the selected projectile systems.

- 35. (Currently Amended) Apparatus according to claim 34, the apparatus further including:
 - a) A-a vehicle having a vehicle body defining a vehicle axis;
 - b) A a propellant system for propelling the vehicle; and, and
 - c) A-a flight controller, the flight controller being adapted to control the propellant system to thereby control the vehicle trajectory.
- 36. (Currently Amended) Apparatus according to claim 34, the apparatus further including a projectile deployment system, the projectile deployment system including:
 - a) A-a body defining a body axis;
 - b) A-a barrel array formed from a number of barrels circumferentially spaced around the body axis, each barrel being arranged at a predetermined angle with respect to the body axis;
 - c) Aa number of projectiles axially stacked along each barrel; and
 - d) A-a number of charges, each charge being associated with a respective projectile to urge the respective projectile along the barrel upon activation to thereby deploy the projectile.

- 37. (Currently Amended) Apparatus according to claim 36, wherein the projectile deployment system being is aligned such that the vehicle axis is substantially coaxial with the body axis.
- 38. (Currently Amended) Apparatus according to claim 36, the wherein deployment of each projectile eausing causes a reactive force along the respective barrel, the pattern of projectiles being at least one of:
 - a) <u>s</u>Symmetric around the body axis to thereby equalise the reactive forces on the body; <u>and and</u>,
 - b) <u>nNon-symmetric</u> around the body axis to thereby generate non-symmetric reactive forces, thereby causing deflection of the body.
- 39. (Currently Amended) Apparatus according to claim 38, the wherein a firing pattern of the projectiles being is adapted to control the trajectory of the vehicle.
- 40. (Currently Amended) Apparatus according to claim 34, wherein the target being is a missile.
- 41. (Currently Amended) Apparatus according to claim 34, wherein the projectile deployment pattern being is selected to thereby increase the effective cross sectional area of the vehicle.
- 42. (Cancelled)

- 43. (Currently Amended) Apparatus according to <u>elaim 42claim 34</u>, <u>wherein</u> the controller <u>including includes</u> a store for storing pattern data representing a number of different projectile deployment patterns, the processor being adapted to select one of the stored projectile deployment patterns in accordance with the position of the target.
- 44. (Currently Amended) Apparatus according to claim 34, wherein the vehicle being is at least one of a kill vehicle and a missile.
- 45. (Currently Amended) A missile for intercepting a target, the missile including:
 - a) A a missile body defining a missile axis; and, and
 - b) <u>a</u>Apparatus including:
 - e) A a projectile deployment system having:
 - i) A-a body; and, and
 - <u>iiiii</u>) A-a number of projectile systems mounted to the body in an array, each projectile system being adapted to deploy a number of projectiles in a predetermined direction with respect to the body and, including:
 - (1) a barrel,
 - (2) a number of projectiles, and
 - (3) a number of charges, each charge being adapted to urge a respective projectile along the barrel to thereby deploy the projectile;
 - b) A <u>a</u> controller, the controller being adapted to selectively activate one or more of the projectile systems to thereby deploy projectiles in accordance with a projectile deployment pattern, wherein the controller includes

one or more sensors for sensing the target, and a processor adapted to

monitor the sensors to thereby determine the position of the target with respect to the missile,

determine a projectile deployment pattern,

select one or more of the projectile systems in accordance with the

projectile deployment pattern, and

activate the selected projectile systems.

46. - 49. (Cancelled)

- 50. (Previously Presented) An apparatus according to claim 34, wherein the controller determines the projectile deployment pattern using a lookup table.
- 51. (New) Apparatus according to claim 34, wherein the body includes a cavity for receiving the controller.
- 52. (New) Apparatus according to claim 34, wherein the one or more sensors are located remotely from the body and the controller is coupled to the one or more sensors via a communications system.
- 53. (New) Apparatus according to claim 43, wherein the pattern data indicates at least one of:
 - a) the barrels from which projectiles should be fired; and

- b) the rate of deployment of the projectiles.
- 54. (New) Apparatus according to claim 36, wherein at least some of the barrels extend radially outwardly from the body axis.
- 55. (New) Apparatus according to claim 36, wherein at least some of the barrels define a barrel array, the barrel array being rotatably mounted to the body to thereby rotate about the body axis.
- 56. (New) Apparatus according to claim 36, wherein at least some of the barrels extend in a direction parallel to the body axis.
- 57. (New) Apparatus according to claim 34, wherein at least some of the barrels define a barrel array for deploying projectiles in directions along and outwardly from the body axis.